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OPEN-HYTERA-OE-MASTER-ENGLISH

Versionsgeschichte interaktiv durchsuchen
VisuellWikitext

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Zeile 63:	Zeile 63:
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DMR WinMaster

by: Kurt OE1KBC oe1kbc@oevsv.at

On the ÖVSV server we installed the DMR OE-MASTER and you can use this master for testing issues.

You can connect with HYTERA RD985 or RD965 repeater with the IP Multi-Site Service license installed. The connection is done via the "Supermaster" service.

Parameters

- Repeater Type: **IP Multi-Site Master**
- Jitter Buffer Length: **8**
- Authentication Key: **!! leave empty !!**
- IP Multi-site Networking UDP Port: **62015**
- P2P Firewall Open Time (sec): **6**
- IP Multi-Site Service: **checked**
- IP Multi-Site Service UDP Port: **62016**
- RDAC: **checked**
- Remote RDAC UDP Port: **62017**
- Super Master Service: **checked**
- Super Master IP: **178.188.156.53**
- Super Master UDP Port: **62005**
- Super Master Multi-Site Service: **checked**
- Super Master Multi-Site UDP Port: **62006** as standard port. Please ask WinMaster SYSOP for your own individual port
- Super Master RDAC Service: **checked**
- Super Master RDAC UDP Port: **62007**

Server ID using RDAC Service

WinMaster versions larger then 8.0 are able to read the programmed Repeater Parameters.

- DMR Repeater ID
- Repeater callsign
- Repeater TX frequency
- Repeater RX frequency or shift

A Repeater with activated Super Master RDAC Service is able to transfer the parameters to the WinMaster. This information will be transferd to the S/BMaster system. So we can display this informations on the DashBoard. Please keep in mind to coordinate the Repeter IDs and store them to the DMR-MARC database. So we do not run in conflicts on international calls.

Server ID (old version without Super Master RDAC Service)

The HYTERA Repeaters do not give their ID to the network streams so I've to take this information from "Super Master Multi-Site UDP" Port.

Therefore, if you use the default UDP-Port 62006 no Server-ID can be calculated.

In coordination with Torsten DG1HT (for BMaster and SMaster) and OE1KBC (for WinMaster) we have the following possibilities:

Super Master Multi-Site UDP Port: **6FRLL**

6....fix

F....counting no. per region 1-4

R....Region 1-9 (in OE it is the state 1-9 in DL the first position of the postal code)

LL...country code - only the last both digits - (OE...2<32> DL...2<62> HB9...2<28> US...3<10>)

e.g.:

the second repeater in region 8 in OE **62832** or

the third repeater in postal region 4 in DL **63462** or

the fourth repeater in region 7 in US **64710**

Please note: Use the UDP-Port "62006" only for the first tests and QSOs. After that you will get a fixed UDP-Port. This Port identifies your repeater to routing- and information systems.

Only with a fixed UDP-Port you can use all the features in the WinMaster system. You can get this fixed port from your WinMaster administrator. In Austria please contact me oe1kbc@oevsv.at

Timeslots / Talkgroups

- local QSOs - the timeslot TS1 should be complete free for local QSOs. Please use TG9 to be compatible to the network issues.
- echo function- as a special we offer on TS1 an echo function. All you speak to TG9990 on TS1 will be responded after release of PTT.
- national QSOs - the timeslot TS2 with TG9 you can also use for local QSOs. With your country code (e.g. in OE TG232 or TG3 in USA) you can make nation wide QSOs
- international QSOs - with TG1 you are connected to all repeaters WW (US, EU, ...).

HYTERA DashBoard / LastHeard

the link <http://ham-dmr.de/dmr/> show the LastHeard information. This can show you the right function of the DigitalMaster installation.

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WinMaster Software

The WinMaster software is written with .NET C# and connects the repeaters to the network..

The parameters in the properties form give you the possibilities to assign talkgroups to your slots. So you can make your own local TGs and bind repeaters to a local DMR-Network. So it is

possible to connect the local repeaters (connected to the same WinMaster) on TS1 with TG9. This is a local area connection.

If you run more than one WinMaster on the same SMaster (see routing concept) you can decide on every WinMaster how to connect this WinMasters together.

The three step model gives us a dynamic structure for the future.

- WinMaster build the repeater connections and the network for the region
- SMaster combine the WinMaster regions to a nationwide network
- BMaster combine nations to continents

here a picture from ÖVSV HYTERA-DMR OE-MASTER main- and propertiespage

DMR+ MASTER 7.00 Linux 64Bit												
HOME	Fri Mar 20 14:17:19 2015											
SYSTEM	DMR MASTER CONFIG											
LOGFILE	SYSOPEMAIL	LocalMasterName	Locator_ID	TS1_INTERN	TS1_EXTERN	Ref Link	Ref unlinK	sMaster_IP				
GPS-USER	oe1kbc@chello.at	OE-Vienna	2322	1,2,20,232	1,2,20,232	User Link On	User Unlink On	44.143.9.60				
DONGLE	REPEATER ON MASTER											
RPT-GEO	DmrID	CALL	LOGINTIME	IP	TX_QRG	RX_QRG	SHIFT	START REF/RT	Reflector	TS1	FIRMWARE	MODEL
RPT-MAP	CONFIG 232100	OE1NAR	Fri Mar 20 09:15:00 2015	44.143.9.70 62006	438.5000	430.9000	-7.6	4191/15	Link 4191	232 1 20	DMR+ MB 0.95	MBplus S
	CONFIG 228391	HE9RO	Fri Mar 20 09:15:00 2015	213.202.59.75 62006	439.4125	431.8125	-7.6	4180/15	Link 4180	228 1 20	A6.05.10.004	RD985 M
	CONFIG 232108	OE1NKK	Fri Mar 20 09:15:00 2015	44.143.9.72 62006	438.6000	431.0000	-7.6	4198/15	Link 4198	232 1 20	DMR+ MB 0.95	MBplus S
DMR-LIVE	CONFIG 262400	DE0NG	Fri Mar 20 09:15:00 2015	217.191.49.246 62006	438.9000	431.3000	-7.6	4006/15	Link 4006	262 1 20	A5.05.10.007	RD985 S
	CONFIG 232192	OE1NQU	Fri Mar 20 09:15:00 2015	44.143.8.68 62006	438.4500	430.8500	-7.6	4180/15	Link 4180	232 1 20	A6.05.10.004	RD985 M
USER	CONFIG 232605	OE1NCD	Fri Mar 20 09:15:00 2015	81.217.111.56 62006	438.9750	431.3750	-7.6	4191/15	Link 4191	232 1 20	A7.00.09.003	RD985 M
	CONFIG 232604	OE1NBE	Fri Mar 20 09:15:00 2015	185.29.89.105 62006	438.9125	431.3125	-7.6	4196/15	Link 4196	232 1 20	A6.05.10.004	RD985 M
USER+	CONFIG 232191	OE1NKK	Fri Mar 20 09:15:00 2015	44.143.9.52 62006	438.4250	430.8250	-7.6	4180/15	Link 4180	232 1 20	A7.00.09.003	RD985 M
	CONFIG 262899	DE0ONA	Fri Mar 20 09:15:00 2015	212.125.105.170 62006	439.5875	431.9875	-7.6	4198/15	Link 4198	20 1	A6.05.10.004	RD985 M
REF-LIST	CONFIG 232893	OE1NKK	Fri Mar 20 09:15:01 2015	44.143.19.50 62006	438.4250	430.8250	-7.6	4191/15	Link 4191	232 1 20	A7.00.09.003	RD985 M
	CONFIG 232391	OE1NKK	Fri Mar 20 09:15:01 2015	82.218.27.11 62006	438.4000	430.8000	-7.6	4191/15	Link 4191	232 1 20	A7.00.09.003	RD625 M
REF-LIST+	CONFIG 232303	OE1NHB	Fri Mar 20 09:15:02 2015	44.143.9.73 62006	438.4250	430.8250	-7.6	4193/15	Link 4193	232 1 20	DMR+ MB 0.95	MBplus S
	CONFIG 232703	OE1NKT	Fri Mar 20 09:15:02 2015	44.143.9.77 62006	438.3500	430.7500	-7.6	4197/15	Link 4197	232 1 20	DMR+ MB 0.95	MBplus S
MASTER	CONFIG 232991	OE1NVI	Fri Mar 20 09:15:02 2015	84.115.117.45 62006	438.5000	430.9000	-7.6	4199/15	Link 4199	232 1 20	A6.00.05.004	RD985 S
	CONFIG 232601	OE1NAG	Fri Mar 20 09:15:02 2015	44.143.9.71 62006	438.6000	431.0000	-7.6	4196/15	Link 4196	232 1 20	DMR+ MB 0.95	MBplus S
	CONFIG 262411	DE1MHR	Fri Mar 20 09:15:03 2015	91.16.219.64 62006	439.0375	431.4375	-7.6	NO SET	NO-LINK	262 1 20 10	A5.05.10.007	RD985 S
	CONFIG 232193	OE1NQU	Fri Mar 20 09:15:03 2015	44.143.26.50 62006	145.5875	144.9875	-0.6	4191/15	Link 4191	232 1 20	A6.05.10.004	RD985 M
RepeaterOnline: 17 Voice: GER EFN:off SPING: 41.50 ms Build: 000 Start Time: Fri Mar 20 09:14:57 2015												

questions to the software and the WinMaster (OE-MASTER) in OE

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DONGLE	REPEATER ON MASTER											
RPT-GEO	DmrID	CALL	LOGINTIME	IP	TX_QRG	RX_QRG	SHIFT	START REF/RT	Reflector	TS1	FIRMWARE	MODEL
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DMR-LIVE	CONFIG 262400	DE0NG	Fri Mar 20 09:15:00 2015	217.191.49.246 62006	438.9000	431.3000	-7.6	4006/15	Link 4006	262 1 20	A5.05.10.007	RD985 S
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F....counting no. per region 1-4

R....Region 1-9 (in OE it is the state 1-9 in DL the first position of the postal code)

LL...country code - only the last both digits - (OE...2<32> DL...2<62> HB9...2<28> US...3<10>)

e.g.:

the second repeater in region 8 in OE **62832** or

the third repeater in postal region 4 in DL **63462** or

the fourth repeater in region 7 in US **64710**

Please note: Use the UDP-Port "62006" only for the first tests and QSOs. After that you will get a fixed UDP-Port. This Port identifies your repeater to routing- and information systems.

Only with a fixed UDP-Port you can use all the features in the WinMaster system. You can get this fixed port from your WinMaster administrator. In Austria please contact me oe1kbc@oevsv.at

Timeslots / Talkgroups

- local QSOs - the timeslot TS1 should be complete free for local QSOs. Please use TG9 to be compatible to the network issues.
- echo function- as a special we offer on TS1 an echo function. All you speak to TG9990 on TS1 will be responded after release of PTT.
- national QSOs - the timeslot TS2 with TG9 you can also use for local QSOs. With your country code (e.g. in OE TG232 or TG3 in USA) you can make nation wide QSOs
- international QSOs - with TG1 you are connected to all repeaters WW (US, EU, ...).

HYTERA DashBoard / LastHeard

the link <http://ham-dmr.de/dmr/> show the LastHeard information. This can show you the right function of the DigitalMaster installation.

You can also reach the overview which repeaters are ONLINE to the OPEN-HYTERA-NET:

http://ham-dmr.de/1repeater_status

And also an overview to control which talkgroups are linked to each repeater is shown:

<http://ham-dmr.de/group.php>.

WinMaster Software

The WinMaster software is written with .NET C# and connects the repeaters to the network..

The parameters in the properties form give you the possibilities to assign talkgroups to your slots. So you can make your own local TGs and bind repeaters to a local DMR-Network. So it is

possible to connect the local repeaters (connected to the same WinMaster) on TS1 with TG9. This is a local area connection.

If you run more than one WinMaster on the same SMaster (see routing concept) you can decide on every WinMaster how to connect this WinMasters together.

The three step model give us a dynamic structure for the future.

- WinMaster build the repeater connections and the network for the region
- SMaster combine the WinMaster regions to a nationwide network
- BMaster combine nations to continents

here a picture from ÖVSV HYTERA-DMR OE-MASTER main- and propertiespage

DMR+ MASTER 7.00 Linux 64Bit												
HOME	Fri Mar 20 14:17:19 2015											
SYSTEM	DMR MASTER CONFIG											
LOGFILE	SYSOPEMAIL	LocalMasterName	Locator ID	TS1_INTERN	TS1_EXTERN	Ref Link	Ref unlinK	sMaster_IP				
GPS-USER	oe1kbc@chello.at	OE-Vienna	2322	1,2,20,232	1,2,20,232	User Link On	User Unlink On	44.143.9.60				
DONGLE	REPEATER ON MASTER											
RPT-GEO	DmrID	CALL	LOGINTIME	IP	TX_QRG	RX_QRG	SHIFT	START REF/RT	Reflector	TS1	FIRMWARE	MODEL
RPT-MAP	CONFIG 232100	OE1NAR	Fri Mar 20 09:15:00 2015	44.143.9.70 62006	438.5000	430.9000	-7.6	4191/15	Link 4191	232 1 20	DMR+ MB 0.95	MBplus S
	CONFIG 228391	HE9RO	Fri Mar 20 09:15:00 2015	213.202.59.75 62006	439.4125	431.8125	-7.6	4180/15	Link 4180	228 1 20	A6.05.10.004	RD985 M
	CONFIG 232108	OE1NKK	Fri Mar 20 09:15:00 2015	44.143.9.72 62006	438.6000	431.0000	-7.6	4198/15	Link 4198	232 1 20	DMR+ MB 0.95	MBplus S
DMR-LIVE	CONFIG 262400	DE0NG	Fri Mar 20 09:15:00 2015	217.191.49.246 62006	438.9000	431.3000	-7.6	4006/15	Link 4006	262 1 20	A5.05.10.007	RD985 S
	CONFIG 232192	OE1NQU	Fri Mar 20 09:15:00 2015	44.143.8.68 62006	438.4500	430.8500	-7.6	4180/15	Link 4180	232 1 20	A6.05.10.004	RD985 M
USER	CONFIG 232605	OE1NCD	Fri Mar 20 09:15:00 2015	81.217.111.56 62006	438.9750	431.3750	-7.6	4191/15	Link 4191	232 1 20	A7.00.09.003	RD985 M
	CONFIG 232604	OE1NBE	Fri Mar 20 09:15:00 2015	185.29.89.105 62006	438.9125	431.3125	-7.6	4196/15	Link 4196	232 1 20	A6.05.10.004	RD985 M
USER+	CONFIG 232191	OE1NKK	Fri Mar 20 09:15:00 2015	44.143.9.52 62006	438.4250	430.8250	-7.6	4180/15	Link 4180	232 1 20	A7.00.09.003	RD985 M
	CONFIG 262899	DE0ONA	Fri Mar 20 09:15:00 2015	212.125.105.170 62006	439.5875	431.9875	-7.6	4198/15	Link 4198	20 1	A6.05.10.004	RD985 M
REF-LIST	CONFIG 232893	OE1NKK	Fri Mar 20 09:15:01 2015	44.143.19.50 62006	438.4250	430.8250	-7.6	4191/15	Link 4191	232 1 20	A7.00.09.003	RD985 M
	CONFIG 232391	OE1NKK	Fri Mar 20 09:15:01 2015	82.218.27.11 62006	438.4000	430.8000	-7.6	4191/15	Link 4191	232 1 20	A7.00.09.003	RD625 M
REF-LIST+	CONFIG 232303	OE1NHB	Fri Mar 20 09:15:02 2015	44.143.9.73 62006	438.4250	430.8250	-7.6	4193/15	Link 4193	232 1 20	DMR+ MB 0.95	MBplus S
	CONFIG 232703	OE1NKT	Fri Mar 20 09:15:02 2015	44.143.9.77 62006	438.3500	430.7500	-7.6	4197/15	Link 4197	232 1 20	DMR+ MB 0.95	MBplus S
MASTER	CONFIG 232991	OE1NVI	Fri Mar 20 09:15:02 2015	84.115.117.45 62006	438.5000	430.9000	-7.6	4199/15	Link 4199	232 1 20	A6.00.05.004	RD985 S
	CONFIG 232601	OE1NAG	Fri Mar 20 09:15:02 2015	44.143.9.71 62006	438.6000	431.0000	-7.6	4196/15	Link 4196	232 1 20	DMR+ MB 0.95	MBplus S
	CONFIG 262411	DE1MHR	Fri Mar 20 09:15:03 2015	91.16.219.64 62006	439.0375	431.4375	-7.6	NO SET	NO-LINK	262 1 20 10	A5.05.10.007	RD985 S
	CONFIG 232193	OE1NQU	Fri Mar 20 09:15:03 2015	44.143.26.50 62006	145.5875	144.9875	-0.6	4191/15	Link 4191	232 1 20	A6.05.10.004	RD985 M
RepeaterOnline: 17 Voice: GER EFN:off SPING: 41.50 ms Build: 000 Start Time: Fri Mar 20 09:14:57 2015												

questions to the software and the WinMaster (OE-MASTER) in OE

Please EMail to oe1kbc@oevsv.at